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Remarks:
The complete document including Reference Tables and the Sequence Listing is available on CD-ROM from the European Patent Office, Vienna sub-office

(54) Full-length cDNA sequences

(57) Novel full-length cDNAs are provided.

1970 cDNA derived from human have been isolated. The full-length nucleotide sequences of the cDNA and amino acid sequences encoded by the nucleotide sequences have been determined. Because the cDNA of the present invention are full-length and contain the translation start site, they provide information useful for analyzing the functions of the polypeptide.

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UTERU20140010
UTERU20167570
UTERU20168960//Homo sapiens actin filament associated protein (AFAP) mRNA, complete cds.//2.60E-68//364aa//43%//AF188700
UTERU20169020//HOMEOBOX PROSPERO-LIKE PROTEIN PROX1 (PROX 1).//1.30E-54//117aa//74%//Q91018
UTERU20173030
UTERU20176230
UTERU20177150//Homo Sapiens zinc finger protein dp mRNA, complete cds.//4.60E-10//104aa//40%//AF153201
UTERU20181270
UTERU20185220//Human mRNA for transcriptional activator hSNF2a, complete cds.//1.60E-125//246aa//98%//D26155
UTERU20188670//HFM1 PROTEIN.//5.10E-19//234aa//26%//P51979
UTERU20188840

Claims

1. A polynucleotide selected from the group consisting of the following (a) to (g):

   (a) a polynucleotide comprising a protein-coding region of the nucleotide sequence of any one of SEQ ID NOs: 1 to 1970;
   (b) a polynucleotide encoding a polypeptide comprising the amino acid sequence of any one of SEQ ID NOs: 1971 to 3940;
   (c) a polynucleotide comprising a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of any one of SEQ ID NOs: 1971 to 3940, wherein, in said amino acid sequence, one or more amino acids have been substituted, deleted, inserted, and/or added, and wherein said nucleotide sequence encodes a polypeptide functionally equivalent to a polypeptide comprising the selected amino acid sequence;
   (d) a polynucleotide hybridizing to a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NOs: 1 to 1970, wherein said nucleotide sequence encodes a polypeptide functionally equivalent to a polypeptide encoded by the selected nucleotide sequence;
   (e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a polypeptide encoded by the polynucleotide according to any one of (a) to (d);
   (f) a polynucleotide comprising a nucleotide sequence having at least 70% identity to the nucleotide sequence of any one of SEQ ID NOs: 1 to 1970; and
   (g) a polynucleotide comprising a nucleotide sequence having at least 90% identity to the nucleotide sequence of any one of SEQ ID NOs: 1 to 1970.

2. A polypeptide encoded by the polynucleotide of claim 1, or a partial peptide thereof.

3. An antibody binding to the polypeptide or the peptide of claim 2.

4. A method for immunologically assaying the polypeptide or the peptide of claim 2, said method comprising the steps of contacting the polypeptide or the peptide of claim 2 with the antibody of claim 3, and observing the binding between the two.

5. A vector comprising the polynucleotide of claim 1.

6. A transformant carrying the polynucleotide of claim 1 or the vector of claim 5.

7. A transformant carrying the polynucleotide of claim 1 or the vector of claim 5 in an expressible manner.

8. A method for producing the polypeptide or the peptide of claim 2, said method comprising the steps of culturing the transformant of claim 7 and recovering an expression product.

9. An oligonucleotide comprising at least 15 nucleotides, said oligonucleotide comprising a nucleotide sequence complementary to the nucleotide sequence of any one of SEQ ID NOs: 1 to 1970 or to a complementary strand thereof.

10. Use of the oligonucleotide of claim 9 as a primer for synthesizing the polynucleotide of claim 1.

11. Use of the oligonucleotide of claim 9 as a probe for detecting the polynucleotide of claim 1.

12. An antisense polynucleotide against the polynucleotide of claim 1 or a part thereof.

13. A method for detecting the polynucleotide of claim 1, said method comprising the following steps of:

a) incubating a target polynucleotide with the oligonucleotide of claim 9 under hybridizable conditions, and
b) detecting hybridization of the target polynucleotide with the oligonucleotide of claim 9.

14. A database of polynucleotides and/or polypeptides, said database comprising information on at least one of the nucleotide sequences of SEQ ID NOs: 1 to 1970 and/or on at least one of the amino acid sequences of SEQ ID NOs: 1971 to 3940.